A NEW SPECIES OF THE GENUS *ATYPUS* LATREILLE, 1804 (ARANEAE: ATYPIDAE) FROM KOREA

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Synopsis

NAMKUNG, Joon (689-16, Kuro-dong, Kuro-gu, Seoul, Korea) : A new species of the genus *Atypus* LATREILLE, 1804 (Araneae: Atypidae) from Korea. *Acta arachnol.*, **35**: 29-33 (1986).

A new species of the genus *Atypus*, *A. magnus* is described from Kwangnung, Central Korea.

This new species is readily distinguished from the other species of the genus, with the general form resembling the other females, especially large-sized body and detailed structure of male palpal organ.

Introduction

Until today, a few uncertain species of Korean spiders of the genus *Atypus* were reported by MORI (1930), PAIK (1937, 1976, 1978, 1979) and NAMKUNG (1964, 1986). Therefore, they should be identified with the correct specific taxon.

Recently, a species of the genus *Atypus* was reported as *A. coreanus* KIM, 1985, but it also must be re-examined for the more definite description.

Acknowledgement

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Atypus magnus sp. nov.

(Figs. 1-7)

(Korean name: Kwangnung-ddang-komi)

Measurements (mm)

Male (holotype): Total length 22.27 (including chelicera and excluding spinnerets); body length 15.64; carapace length 6.10, width 5.83; sternum length 4.61, width 4.24; labium length 0.43, width 1.35; endite length 3.71, width 2.12; cheliceral length 6.63, width 2.65; abdomen length 9.54, width 7.20

Leg I 18.83 (6.09, 2.39, 2.92, 4.51, 2.92)
II 15.81 (4.24, 2.39, 2.39, 3.98, 2.81)
III 15.38 (3.98, 2.12, 2.12, 3.98, 3.18)
IV 19.41 (5.46, 2.39, 2.81, 5.04, 3.71)
Palp 8.78 (3.18, 1.59, 1.89, 2.12)

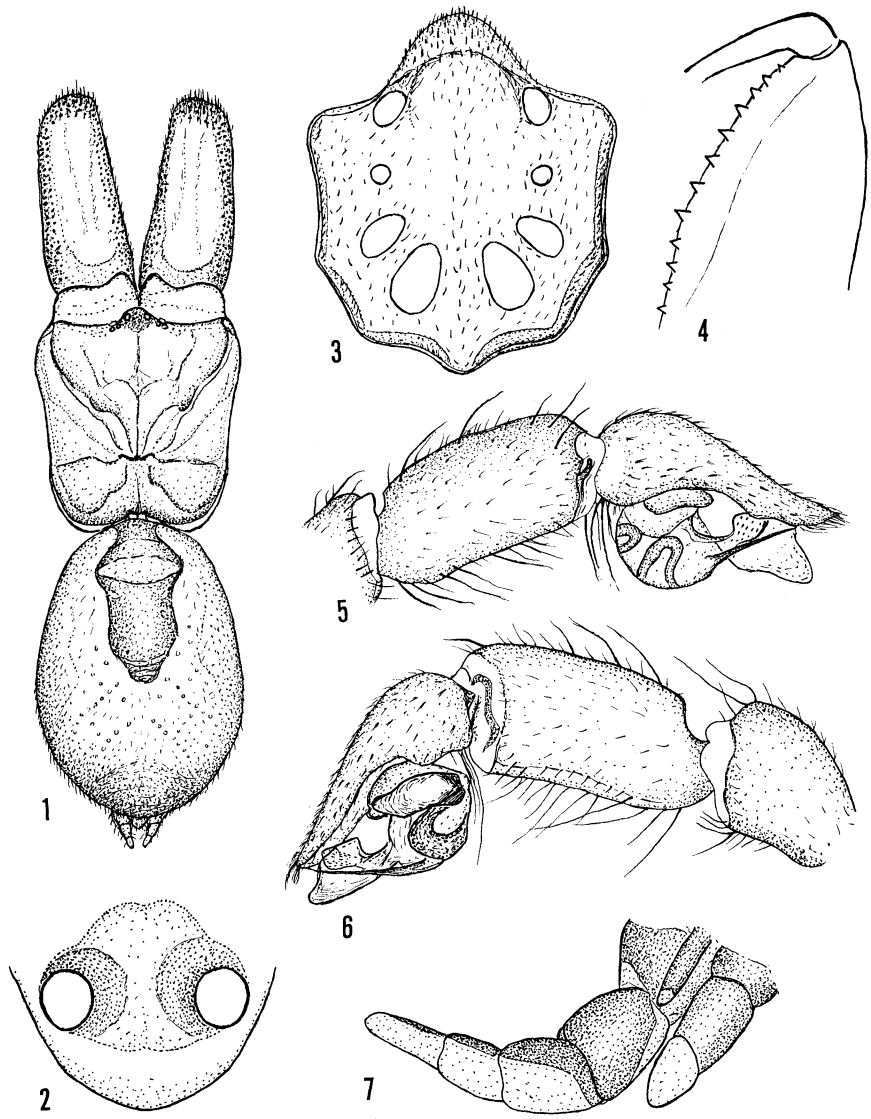
Description

Male (holotype): Carapace dark yellowish brown, lustrous, with narrow marginal black seam; cephalic part darker, margined by blackish stripes; thoracic part with narrow blackish lines from black thoracic groove.

Carapace quadrangle, slightly longer than wide (23: 22), gently narrowed backward, quite smooth, shining, but moderately rough along sutures and side margins. Cephalic part elevated, essentially straight along front, with rounded corners, forming triangle with nearly straight cephalic sutures to thoracic groove. Thoracic part flat, much lower, gently rounded on sides to rounded, emarginated posterior margins bearing conspicuous pleurites; thoracic groove deep, wide, transverse fissure, placed back three-fourth of carapace length, occupying about one-fourth of carapace width at that point.

Eyes set on elevated, blackish tubercle nearly one-fourth width of cephalic part. Eye ratio, ALE>AME=PLE>PME, 20: 18: 18: 12. Anterior row less wider than posterior, straight as viewed from above; medians separated by twice diameter, nearer laterals. Posterior row recurved; oval medians separated by five times, subcontiguous with laterals. Lateral eyes of each side contiguous.

Sternum, labium, endites, palpal coxae, chelicerae and legs nearly concolorous, yellowish brown. Sternum slightly longer than wide (87: 80), moderately roughened throughout, with distinct ridges at borders, covered sparsely with short hairs; four pairs of sigilla well defined, oval first pair larger than round second pair, suboval posterior pair largest, separated by about their width. Labium three times wider than long, rounded apex with a few white slender or brown short hairs. Endite relatively short, thick, broadly separated at apex, inner margins with white scopula and minor serrula. Chelicerae well developed, more



Figs. 1-7. *Atypus magnus* sp. nov. 1. Male (holotype), dorsal view. 2. AME, dorsal view. 3. Sternum. 4. Chelicera, left inner view. 5-6. Male palp. 5. Left inner view. 6. Left ectal view. 7. Spinnerets, right ventral view.

than twice as long as wide, only slightly narrowed to rounded apex; front and lateral surface with numerous warty granulations, and promargin with 12 large teeth in straight row.

Leg formular 4·1·2·3, leg formular index 100: 84: 82: 103. Legs thin, clothed sparsely with deep brown hairs; femur I with a pair of small prolateral apophyses; tarsi with ring of false sutures from basal fourth to near apices, 3-4 dorsal spines on distal segments.

Palp slim, swelled, clothed with fine hairs and weak setae. Femur thick at base, less than three times as long as basal width; patella slightly longer than wide; tibia thick, less than twice as long as dorsal width; tarsus twice as long as broad, tapered and rounded at apex; bulb globelike, conductor shape up a broad twisted plate, narrowed proximal part about one-fourth of anterior width of that point; embolus spine-shaped, straight forward tip nearly adjoin to the concave end of the cymbium.

Abdomen suboval, elevated, dull dusky brown, with numerous small pale yellowish brown pits, dorsum with shining dark brown scutum, enclosing yellowish brown tergite, running from pedicel to middle of abdomen. Venter with roughened and pitted, clothed sparsely with short hairs, lung patches pale brown. Spinnerets yellowish brown, anterior laterals 0.68 long, posterior medians 1.12 long, four segmented posterior laterals with lengths as follows: basal 0.80, median 0.80, subapical 0.60, apical 0.80, total 3.00.

Female: Unknown.

Type material. Holotype: ♂, The forest of Kwangnung (altitude at 200 m), Jigdong-ri, Sohel-myon, P'ochón-gun, Kyonggi-do, Korea, 7-VI-1969, J. NAMKUNG. The type specimen is preserved in the author's collection.

Remarks: This new species somewhat resembles to *A. affinis* EICHWALD in the shape of conductor, but clearly differs from the latter in a ear-lobed terminal pat; and the posterior lateral spinnerets being four-segmented, while in *A. affinis* they are three-segmented.

摘　　要

南宮　燾（〒152 韓国ソウル特別市，九老区九老洞 689-16，住公 APT. 101-801）：韓国産ジグモ属の1新種。

ジグモ属の1新種，*Atypus magnus* sp. nov. を記載した。本種は今のところ他の何れよりも大形種であり，外見上，形状は成雌と区別が付かない程である。雄触肢の conductor の細い事等は *A. affinis* に近いが後糸器が4節なる点で相異する。

Refereces

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